MAPPING ECUADOR

On Saturday 16th at 18:58, the northern part of Ecuador was hit by a 7.8-magnitude earthquake with epicenter in the town of Muisne, affecting six provinces that have been declared in emergency state. Official sources have confirmed at least 350 deaths and more than 2,500 people injured until now. Many people lost their houses and they are being located in makeshift temporary shelters. Some towns have lack of basic services as water and electricity. Rescue missions have several problems accessing the zone because roads are damaged.

Among the multiple activities, an initiative for mapping through satellite images in order to create maps in the most vulnerable places. These maps help in various ways and they can be created from volunteers all around the world.

In this occasion, Ecuadorian students living in Leuven kindly request to join the mapping activities and be part of these initiative.

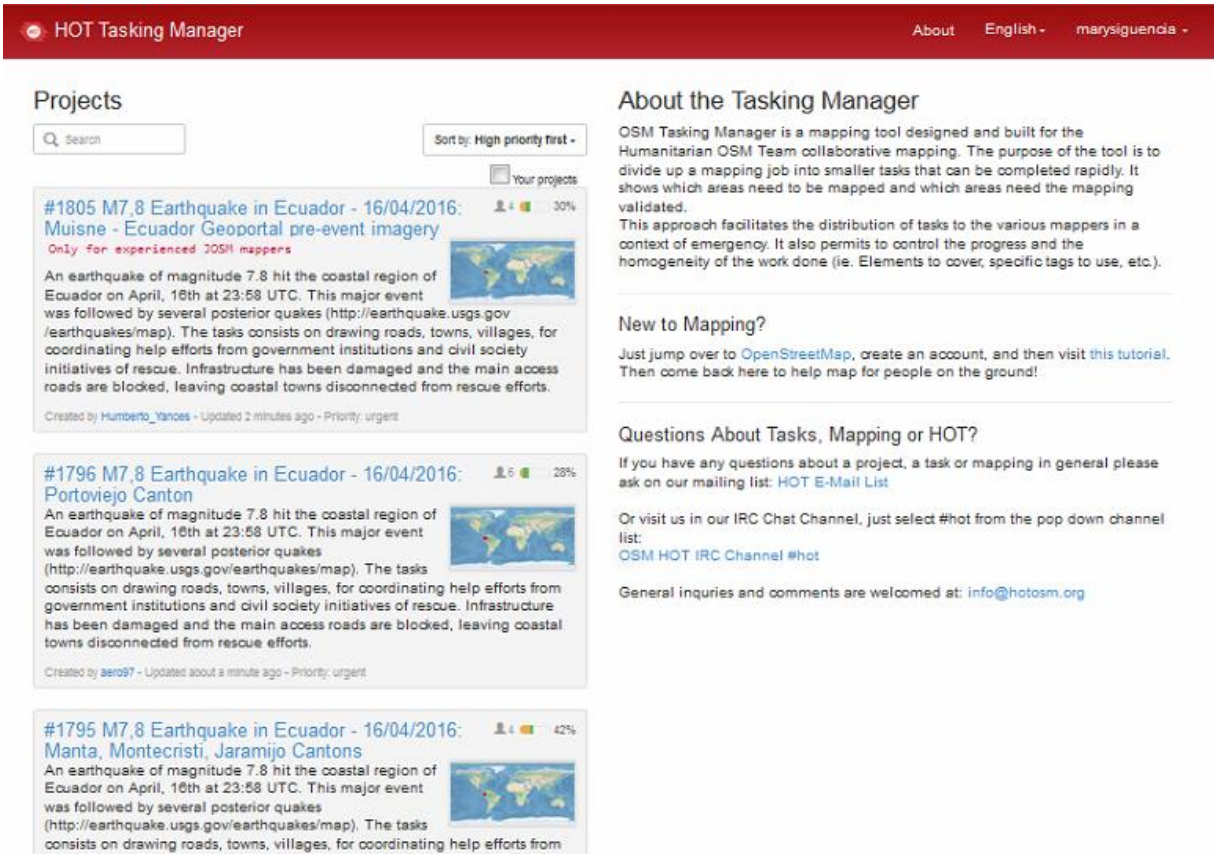
It is possible to read detailed information available at:

http://wiki.openstreetmap.org/wiki/2016_Ecuador_earthquake

Specifically the way you can help is tracing from the available satellite images through the Humanitarian OpenStreetMap Team (HOT)

http://tasks.hotosm.org/

1. The way to start contributing is creating an account and logging in.
2. Once you have logged in, there are the priority mapping tasks that need to be complete:


HOT Tasking Manager
About
English
marysiguencia
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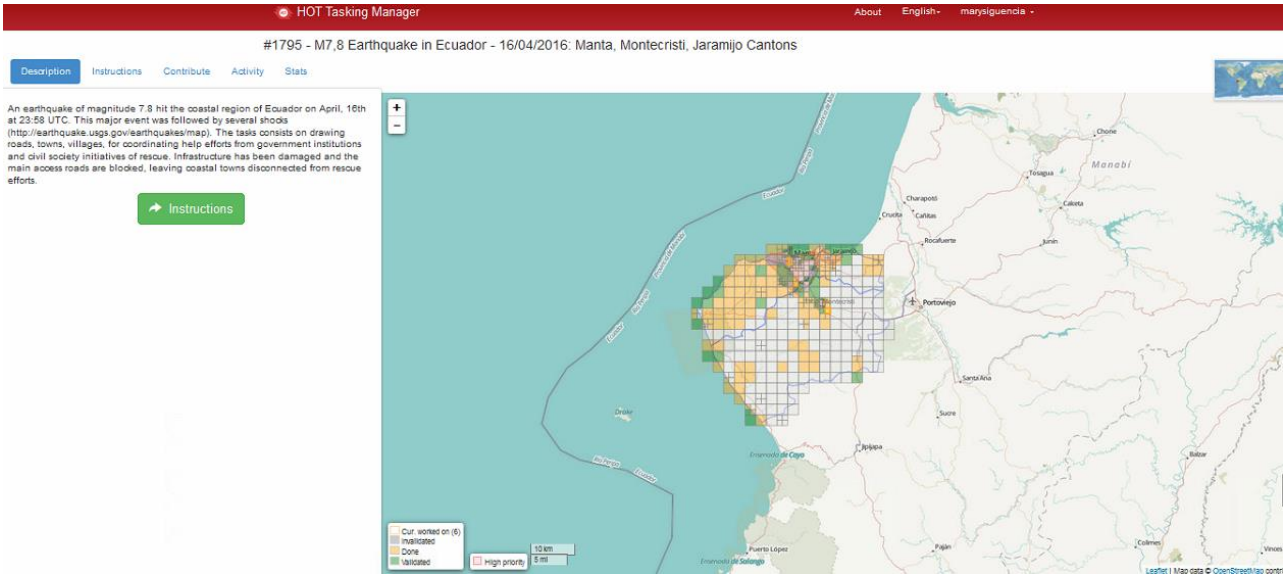
#1805 M7,8 Earthquake in Ecuador - 16/04/2016: Muisne - Ecuador Geoportal pre-event imagery
30%
Only for experienced JOSM mappers
An earthquake of magnitude 7.8 hit the coastal region of Ecuador on April, 16th at 23:58 UTC. This major event was followed by several posterior quakes (http://earthquake.usgs.gov/earthquakes/map). The tasks consists on drawing roads, towns, villages, for coordinating help efforts from government institutions and civil society initiatives of rescue. Infrastructure has been damaged and the main access roads are blocked, leaving coastal towns disconnected from rescue efforts.
Created by Humberto_Yances - Updated 2 minutes ago - Priority: urgent
#1796 M7,8 Earthquake in Ecuador - 16/04/2016: Portoviejo Canton
28%
An earthquake of magnitude 7.8 hit the coastal region of Ecuador on April, 16th at 23:58 UTC. This major event was followed by several posterior quakes (http://earthquake.usgs.gov/earthquakes/map). The tasks consists on drawing roads, towns, villages, for coordinating help efforts from government institutions and civil society initiatives of rescue. Infrastructure has been damaged and the main access roads are blocked, leaving coastal towns disconnected from rescue efforts.
Created by aero97 - Updated about a minute ago - Priority: urgent
#1795 M7,8 Earthquake in Ecuador - 16/04/2016: Manta, Montecristi, Jaramijo Cantons
42%
An earthquake of magnitude 7.8 hit the coastal region of Ecuador on April, 16th at 23:58 UTC. This major event was followed by several posterior quakes (http://earthquake.usgs.gov/earthquakes/map). The tasks consists on drawing roads, towns, villages, for coordinating help efforts from
About the Tasking Manager
OSM Tasking Manager is a mapping tool designed and built for the Humanitarian OSM Team collaborative mapping. The purpose of the tool is to divide up a mapping job into smaller tasks that can be completed rapidly. It shows which areas need to be mapped and which areas need the mapping validated.
This approach facilitates the distribution of tasks to the various mappers in a context of emergency. It also permits to control the progress and the homogeneity of the work done (ie. Elements to cover, specific tags to use, etc.).
New to Mapping?
Just jump over to OpenStreetMap, create an account, and then visit this tutorial. Then come back here to help map for people on the ground!
Questions About Tasks, Mapping or HOT?
If you have any questions about a project, a task or mapping in general please ask on our mailing list: HOT E-Mail List
Or visit us in our IRC Chat Channel, just select #hot from the pop down channel list:
OSM HOT IRC Channel #hot
General inquries and comments are welcomed at: info@hotosm.org

You can enter to the ones which are **not** required of JOSM specialized mappers.

3. Once you have selected the task you can see the description contributions and start collaborating.


HOT Tasking Manager
About
English
marysiguencia
#1795 - M7,8 Earthquake in Ecuador - 16/04/2016: Manta, Montecristi, Jaramijo Cantons
Description
Instructions
Contribute
Activity
Stats
An earthquake of magnitude 7.8 hit the coastal region of Ecuador on April, 16th at 23:58 UTC. This major event was followed by several shocks (http://earthquake.usgs.gov/earthquakes/map). The tasks consists on drawing roads, towns, villages, for coordinating help efforts from government institutions and civil society initiatives of rescue. Infrastructure has been damaged and the main access roads are blocked, leaving coastal towns disconnected from rescue efforts.
Instructions
Manabí
Portoviejo
Santa Ana
Puerto López
Cur. worked on (6)
Invalidated
Done
Validated
High priority
10 km
5 mi

4. See the description for priority and places that need to be traced depending on its color:

- Pink areas of the map indicate higher priority areas,
- Yellow grid squares have been completed,
- A yellow border indicates the square is being worked on now,
- Green squares have been completed and "validated", and
- The remaining squares still need to be completed, or have previously been invalidated (invalidated squares are a darker color).

5. Select non-worked areas and start editing.
6. To edit the maps and start collaborating there are some possibilities:

JOSM
iD editor
Potlatch 2
Walking papers
Field papers
The first two possibilities are available for now.

With iD editor

1. A new page will be opened (editor on line).

2. Zoom and work **only** in the selected square.

3. Work with points (in the case you can identify specific places), lines (for roads) and areas (buildings) to trace on the maps.

4. Do not forget to tag what you have mapped. In the case of tracing buildings define the label as 'building' when you do not know its specific use.

5. In the case of roads it is possible to define highways and secondary roads (make sure you link the roads to each other).

6. Save frequently to update your work and not losing the information.

7. Do not change the 'CHANGESET COMMENT'.

8. Mark 'mark task as done' **ONLY** when the entire task is finished. Otherwise select 'stop mapping' to unlock the area and someone else can work on it.

9. You can finally leave a comment on what you have traced. e.g. buildings or roads.

With JOSM

This is a software which has tools to improve workability when mapping.

Full data available at: http://learnosm.org/en/josm/start-josm/

1. Install JOSM from the links on the website.
2. To configure and start working open the software and go to the panel Edit/ Preferences/ Remote Control, and activate the Remote Control. Then go back to the HOT website and select 'Edit with JOSM' (the software has to be running).
3. To display the map in the software go to Image/Image Area Bing (for now this is the map to work with). On the right properties panel you can adjust the level of opacity of the map for your visual comfort.
4. Double-click or Esc finishes the current trace. Hold right click to pan over the map.
5. To improve the workability, activate the plug-in 'Building tools' on panel Edit/ Preferences/ Complements.
6. Once you are working with the building plug-in take into account the following shortcuts:
   b: to create directly a rectangular-shape building.
   s: select (to modify the points or borders).
   Shift+j: join (select two or more elements to merge rectangular building shapes in one e.g. [L shape building])
7. If you are not tracing using the 'building-tools' plug-in, you should give the element (point, line, area) the respective tag. Take into account these shortcuts:
   a: add new elements.
   q: orthogonal (this command automatically creates orthogonal angles for the forms you draw).
   F3: properties (give the element the corresponding tag [road, building, park, etc.])
8. To save your contribution you can press crtl +shift+upper arrow. Comment the changes you have done and remember **NOT** to select 'Mark as done' until you finish tracing the entire task.

For detailed information and questions you can also ask with the hashtag #MappingEcuador on twitter and follow online tutorial Spanish sessions carried out by Daniel Orellana in Ecuador:
https://www.youtube.com/watch?v=EM-CIwVrMyI (iD contributions)
https://www.youtube.com/watch?v=Rfmo_QZL_QA (JOSM contributions)
If you have some remarks or questions regarding the way to contribute do not hesitate to contact me. mariaeugenia.siguenciaavila@student.kuleuven.be / mary_genis@hotmail.com

Thank you very much for your valuable contribution!